

Bettinger Timber Dams Removal
Coastal Consistency Analysis

Kodiak Island Borough District Enforceable Policies Relevant to Proposed Project

Policy	Proposed Action	No Build Alternative
Water-Dependent/Water-Related Uses	N/A - The proposed project is not located on the shoreline.	N/A - The existing project is not located on the shoreline.
Concurrent and Multiple Use	N/A - The proposed project is not located on the shoreline.	N/A - The existing project is not located on the shoreline.
Compatibility - activity shall be compatible with adjacent land use.	Removal of the timber dams will ensure that former reservoir does not retain excess water.	The timber dams do not meet current dam safety standards, and are a potential safety hazard.
Industrial Development	N/A	N/A
Commercial Development	N/A	N/A
Residential Development	N/A	N/A
Recreation, Tourism, and Natural Setting	N/A	N/A
Energy Facilities	N/A	N/A
Transportation and Utility Routes		
1. State Highway Construction and Maintenance	N/A	N/A
2. Location - utility routes shall be located away from shorelines.	The proposed project is not adjacent to the shoreline.	The existing project is not adjacent to the shoreline.
3. Facility Design, Construction, and Maintenance - utility design shall minimize impacts to water courses and wetlands, and visual degradation.	The proposed project minimizes impacts to downstream water courses and wetlands by preventing excess silt discharge and maintaining the natural Dow regime.	The existing timber dams could fail, releasing excess silt and storm water into the stream, adjacent wetlands, and storm drains.
4. Stream Crossings - construction scheduling will avoid critical migration periods for salmon.	The contractor will avoid critical migration periods for salmon in the stream below Timber Dam AK00023.	There would be no construction-related impacts, but the existing timber dams could fail, impacting salmon migration.
5. Underground Utilities	Two risers on historic intake pipes will be removed.	The risers would remain in place.
6. Utility Service	N/A	N/A
7. Sanitary Landfills	N/A	N/A
Fisheries and Seafood Processing	N/A	N/A
Timber and Timber Processing	N/A	N/A
Agriculture	N/A	N/A

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Mineral and Mineral Processing		
1. Material Sources - extraction of gravel and other materials and access to these resources shall be allowed when impacts to fish and wildlife can be minimized and extraction is consistent with 6 AAC 80.110.	The proposed project is not located on the shoreline. Construction material not available on-site will be obtained from existing commercial sources.	No material excavation would occur.
2. Gravel mining	N/A	N/A
Subsistence		
1. Primary Use - subsistence use shall be protected.	The proposed project will minimize impacts to subsistence resources.	There might be an impact to subsistence resources if the timber dams fail.
2. Habitat Management	The proposed project will minimize impacts to subsistence resources.	There might be an impact to subsistence resources if the timber dams fail.
Geophysical Hazards		
1. Utilization - development shall be sited to minimize the risk to life and property.	The flexible, earthquake-resistant drop channel and berm are sited to protect downstream life and property.	The timber dams do not meet current dam safety standards, and are a potential safety hazard.
3. Coastal erosion	N/A	N/A
4. Seismic events (large-scale development)	N/A	N/A
5. Coastal/Seiche Flooding	N/A	N/A
6. Landslides and Mass Wasting	N/A	N/A
7. Avalanche Hazards	N/A	N/A
8. Riverine Flooding (flood control structures)	N/A	N/A
Coastal Access	N/A	N/A
Resource Enhancement and Protection		
1. Enhancement - maintenance and enhancement of fish, wildlife, and vegetative resources shall be a priority.	The proposed project will maintain fish habitat by preventing excess silt discharge and maintaining the natural flow regime.	The existing timber dams could fail, releasing excess silt and storm water into the stream and adjacent wetlands.
2. Habitat Protection management of sensitive areas shall be in accordance with 6 ACC 80.130.	See 11 AAC 112.300 below.	There might be an impact to habitat protection if the timber dams fail.

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3. Siting and Design - development shall be designed, located, and built to preserve to the extent feasible and prudent natural features.	The project area is a former water supply reservoir. Replacing one timber dam with a berm and the other timber dam with a channel will enhance the "natural" appearance.	The existing limber dams would remain in place.
4. Natural Processes - wetlands shall be managed to assure water flow, natural circulation patterns, and adequate nutrient and oxygen levels. Dredging and filling is not permitted unless approved by the U.S. Army Corps of Engineers (USACE) and other appropriate agencies.	The drop channel will maintain fish habitat by preventing excess silt discharge and maintaining the natural flow regime. The City of Kodiak has applied for a USACE permit to excavate 7,500 cubic yards to construct a drop channel in 1.0 acres, and to excavate 360 cubic yards to construct a berm in 0.3 acres. Excavated material not suitable as backfill will be used for topsoil. Excavation will be completed prior to removal of Timber Dam AK00023 to protect the stream below the dam. A letter discussing alternatives was provided to USACE on April 14, 2006.	There might be an impact to habitat protection if the timber dams fail.
Air and Water Quality		
1. Cumulative Impact	N/A	N/A
2. State-of-the-Art Technology	N/A	N/A
3. Wastewater Discharge	N/A	N/A
4. Siting	N/A	N/A
5. Dredge and Fill - coastal development shall minimize dredge and fill activities and adverse impacts on habitat, water quality, and floodwater retention values when siting and constructing facilities.	A Stormwater Pollution Prevention Plan (SWPPP) and compliance with the General Stormwater Permit for Construction Activities will be required prior to and during construction.	There would be no construction impacts.
Archaeological/Historical Resources - prehistoric archaeological sites not already protected shall be identified and preserved to the extent feasible and prudent.	The proposed project is in the location of a former water supply reservoir. There are no known prehistoric sites in the reservoir.	If sites were present, there would be no construction impacts.

Alaska Coastal Management Program Standards Relevant to Proposed Project

11 AAC 112.200. Coastal Development - In coastal areas, Projects that are water-dependent or water-related should be given priority, and placement of structures or fill into coastal water must comply with the Clean Water Act.	N/A - The proposed project is not located on the shoreline.	N/A - The existing project is not located on the shoreline.
11 AAC 112.210. Natural Hazard Areas - project plans must be approved by an Alaska-registered engineer with engineering experience concerning the specific natural hazard.	The project plans have been approved by Rupert G. Tart, Golder Associates Inc., an Alaska-registered geotechnical engineer with experience in dam safety.	The timber dams do not meet current dam safety standards, and are a potential safety hazard.
11 AAC 112.120. Coastal Access - projects shall maintain, and where appropriate, increase public access to, from, and along coastal water.	N/A - The proposed project is not located on the shoreline.	N/A - The existing project is not located on the shoreline.
11 AAC 112.230. Energy Facilities	N/A	N/A
11 AAC 112.240 Utility Routes and Facilities - utility routes and facilities must be sited inland from beaches and shorelines.	The proposed project is in the former water supply reservoir, .75 miles from the shoreline, at approximately elevation 150 feet.	The existing project is in the former water supply reservoir, .75 miles from the shoreline, at approximately elevation 150 feet.
11 AAC 112.250. Timber Harvest and Processing	N/A	N/A
11 AAC 112.260. Sand and Gravel Extraction - sand and gravel may be extracted from coastal waters.	N/A - The proposed project is not located on the shoreline. Construction material not available on-site will be obtained from existing commercial sources.	N/A - The existing project is not located on the shoreline.
11 AAC 112.270. Subsistence - a project within a subsistence use area must avoid or minimize impacts to subsistence uses of coastal resources.	The proposed project will minimize <i>impacts to</i> subsistence resources.	There might be an impact to subsistence resources if <i>the</i> timber dams fail.
11 AAC 112.280. Transportation Routes and Facilities.	N/A	N/A

Alaska Coastal Management Program Standards Relevant to Proposed Project

11 AAC 112.300. Habitats - relevant habitats are (3) wetlands, which must be managed to avoid, minimize, or mitigate significant adverse impacts to water flow and natural drainage patterns; and (8) streams, which must be managed to avoid, minimize, or mitigate significant adverse impacts to natural water flow and vegetation within riparian management areas.	See Resource Enhancement and Protection, 4. Natural Processes, under the District Enforceable Policies above.	See Resource Enhancement and Protection, 4. Natural Processes, under the District Enforceable Policies above.
11 AAC 112.310. Air, Land, and Water Quality. - Development within the coastal zone must comply with all Alaska Department of Environmental Conservation regulations pertaining to the protection of air, land, and water quality.	Water quality certification has been requested in conjunction with the application to the U.S. Army Corps of Engineers.	There would be no construction impacts.
11 AAC 112.320. Historic, Prehistoric, and Archeological Resources - the Alaska Department of Natural Resources will designate areas of the coastal zone that are important to the study, understanding, or illustration of national, state, or local history or prehistory, including natural processes.	See Archaeological/Historical Resources under the District Enforceable Policies above. Prior to publishing the public notice, USACE reviewed the latest published version of the Alaska Heritage Resources Survey, which contained no listed or eligible properties within the work site.	See Archaeological/Historical Resources under the District Enforceable Policies above.

